DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Pursell, Gary
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-001440
Date Inspected: 13-May-2009

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 1900
OSM Departure Time: 700
Location: Changxing Dao, Shangha

Quality Control Contact:	William (Bill) Oak	**Quality Control Present:**	☑ Yes ☐ No
Material transfer:	☐ Yes ☐ No ☑ N/A	**Sampled Items:**	☐ Yes ☐ No ☑ N/A
Stock Transfer:	☐ Yes ☐ No ☑ N/A	**OK to Cut:**	☐ Yes ☐ No ☑ N/A
Rebar Test Witness:	☐ Yes ☐ No ☑ N/A	**Delayed/Cancelled:**	☐ Yes ☐ No ☑ N/A
Other:	Coatings Inspection		
Bridge No:	34-0006	**Component:**	OBG 1AW,OBG 2AW,OBG 5BE,Cross Bear
Bid Item:	77, 78, 79	**Lot No:**	B265

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Miscellaneous Metal

Cable trays , splice plates ,angle iron and fill plate base metal surfaces were abrasive blasted to SSPC SP-10 condition and Interzinc 22 applied.

OBG 5BE

External surfaces were tested for chlorides and values were below 10ug/cm. Profile amplitude was observed at 54-67um. SSPC SP-10 was not achieved at this time and grinding and re-blasting of base metal surfaces was required.

Corner Unit Sub assemblies

8BW and 8AE base metal faying surfaces were abrasive blasted to SSPC SP-10 condition and Interzinc 22 applied.

OBG 1AW

Mist coat application to exterior surfaces were sanded and screened followed by blowdown with dry compressed air and application of Interfine 979 was applied utilizing airless spray.

East Tower Lift #1

This tower section was brought into Blast shop #2 despite incomplete de-greasing of exterior surfaces. Scaffold erection for access is in process.

OBG 2AW

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

Adhesion retesting of adjacent failed test on interior was observed and the following values were observed in retest area. 1) 8.83Mpa 2) 9.99Mpa

OBG 3AE/3BE Weld Seam

Base metal surfaces of weld seam were abrasive blasted to SSPC SP-10 condition and Interzinc 22 applied.

Cross Beam #1

ZPMC requested a VT inspection on base metal abrasive blasted surfaces, ZPMC did not remove spent abrasive from stiffeners and lower surfaces, blasting operations were incompleted at this time.

OBG 5BE

ZPMC requested base metal abrasive blast inspection and VT inspection, grinding operations were required to base metal defects from fabrication. “U” rib stiffeners and vertical diaphragms were also included in this inspection. Re-blasting required VT performed by Larry Viars and Joe Alaniz, no VT inspectors from ZPMC nor ABF.

Note: All coating related inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA Lumley. International Protective Coatings technical service representatives Peng ZiLi and Alpha Chen also participated

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer